Thailand Professional Qualification Framework: Are Necessarily Good Policy Practice, Especially for Aviation Personnel?

Rawat Garchotechai¹ Supachada Tulwatana² Varapattra Naulsom³

Abstract

In the global marketplace, professional qualification is an instrument to succeed in professional services. Thus, it is important to study the Thailand Professional Qualification Framework (TPQF) policy and practice. This paper, through a comprehensive literature review, reveals the terms of Professional Qualification Framework (PQF) and National Qualification Frameworks (NQFs). PQF and NQFs has similar dimension and perspective. Several Europe countries, Australia and New Zealand invented NQFs by emphasizing vocational qualifications; whereas, United Kingdom and Thailand established PQF by focusing on competency based of work experiences. This paper also reveals a necessary policy practice for Thai employees, especially aviation personnel. In the other words, TPQF probably expects beneficial areas for aviation personnel in different aspects; facilitating the movement of professions; ensuring professional standard and supporting lifelong learning. Albeit some countries outcomes-led qualification frameworks are unlikely to succeed.

Keywords: Professional Qualification Frameworks, National Qualification Frameworks, Aviation personnel

¹Lecturer, Kasem Bundit University

Kasem Bundit University 60 Romklao Road, Minburi, Bangkok 10510

E-mail: rewat.gar@kbu.ac.th

²Lecturer, Kasem Bundit University

Kasem Bundit University 60 Romklao Road, Minburi, Bangkok 10510

E-mail: supachada.tul@kbu.ac.th ³Lecturer, Kasem Bundit University

Kasem Bundit University60 Romklao Road, Minburi, Bangkok 10510

E-mail: varapattra.nau@kbu.ac.th

Introduction

In the European Union, professional qualifications is a device to achieve in a global marketplace of professional services in the light of legislation (Plimmer, 2002); for instance. United Kingdom profession qualification has been requires to facilitate management since the 19th century. United Kingdom employs three elements accomplish the full professional qualification that are specific skills, practical competence based on work experience, and development under individual competence. Specific skills and practical competence are elements that focuses on an academic while individual competence is based on modular working and training experience. It is the most challenging element to achieve.

For Thailand. however Thailand Professional Qualification Institute (TQPI) is a public organization and works under the prime minister's supervision. TPQI main purposes are to increase human capital competitiveness and create economic valued added, according to expectation of the launch of Asean Economic Community (AEC). TPQI is responsible for establishing and implementing qualification framework by determined the standard to measure performance of individual in order to "Qualifications". guarantee Thailand

Professional Qualification Framework (TPQF) established in 2012 to promote professional qualification system in nation. TPQF was introduced as a key mechanism to enhance the progress and productivity of worker in Thailand. In the world of working, knowledge, skills and proficiencies are essentially needed for a professional worker (Thailand Professional Qualification Institute, 2018). Therfore, to perform work effectively and productively, employees do need both knowledge and several skills that derived from practice and on-the-job learning. Notwithstand it is called In competency. order to perform competently, each job need to have several competenices to perform work effetively and productively, and each job requires differnent competenicies.

During 2013-2018, TPQFs plays an important role as a tool to guarantee those who have the competency on occupational standard from 44 sectors and professionals such logistics, as automobile service, tourism, spa service, digital content, mechatronics as well as aviation business. Individual's competency certification based on occupational standard will give to those who have educational background and those who have not.



Literature Reviews

National Qualification Frameworks (NQFs)

qualification frameworks National (NQFs) have been growing and increasing both in national and international since the 19th century. Qualification Frameworks can be defined instrument for as the an development, classification and recognition of skills. As well as, knowledge and competencies on national level or regional level is a set of criteria which is applicable to specified levels of learning outcomes (Tuck, 2007). Several researchers advocated that all countries should adopt these frameworks since they are necessary development, positive, modern and achieve design goal (Young, 2007). They also argued that this is the form of two processes namely, modernization and globalization. The form of modernization has reduced differences within the nation and between countries; whereas, the form of globalization has shown the greatest mobility of labour between the countries. For instance, European Qualification Framework attempts to reduce barriers free labour movement within European countries.

United Kingdom, Ireland, Australia and New Zealand were early preliminary countries to implement NQFs which mainly focus on vocational qualifications, and emphasis to be designed as overarching

frameworks for all education perspectives 2010). NOFs are a global (Chakroun, phenomenon (Young, 2003). There are almost 70 countries across the world developing or planning an NQFs that ranged from industrialized fast-developing states to countries in Asia and developing countries in Africa (2010, cited in Chakroun, p.201).

The purposes of NOFs are elements of national qualification systems that include the processes and rules for accrediting, awarding and quality assuring qualifications (Bateman et al., 2012). Several countries established and developed qualifications frameworks for many purposes - implicit or explicit. In the review of NQFs across Europe, Biornavold Grm (2009)and have demonstrated NOFs the purposes as followings:

- Making national qualifications systems easy to understand;
- Clarifying and strengthening the relationship between qualifications within the systems;
- Coordinating conjunction of qualifications systems by engaging different part of education and training;
- Supporting lifelong learning by making learning pathways visible, participation and progression;
- Enhancing the communication between education, training and labor market;

- Creating a platform for cooperation and dialogue with stakeholders; and
- Providing a reference area for quality assurance.

described that Coles NOFs are classifiers the relationship between the horizontal and vertical continuum regarding the different form of qualifications (2006). The key features of the NOFs can be concluded as a qualification in terms of learning outcomes that includes knowledge, skills and competences. They ranked according to a single hierarchy of levels, and a set of occupational and/or knowledge areas (Young and Allais, 2009). Many countries increasingly contain common distinctive features as follows:

- the qualifications are independent of vocational education and training;
- quality assurance systems are foreseen to validate qualifications, accredit institutions and ensure quality assurance in assessment leading to the award of qualifications; it is easier to put value on learning programs in order to accumulation and transfer credit (Chakroun, 2010).

The European Qualifications Framework (EQF) and The ASEAN Qualifications
Reference Framework (AQRF)

The EQF was founded by European Parliament and the Council since 2008 by acting as a translation device to lead national qualifications more readable across Europe countries, and promoting both and workers mobility among learners countries in order to facilitate their lifelong learning. The EQF is appropriate to all kinds of education, training and qualifications. Workers and individuals are allowed to employ the EQF to understand and compare the qualifications levels of different countries, eduation and training system. Several European countries intended to develop NQFs by linking with the EQF. EQF is an essential tool to enhance the free movement of students and of graduates across Europe. The European comission has encouraged a distinction of mutual recognition. Those are professional purposes and academic purposes. Professional purposes describe as a need to be recognized in order to work in a certain profession; whereas. acdemic purposes describe as a need to be recognized in order to continue studies (European Commission, 2008).

The ASEAN Economic Community (AEC) comprises ten ASEAN members – Brunei, Cambodia, Indonesia, Laos, Malaysia, Myanmar, The Philippines, Singapore, Vietnam and Thailand. AEC was established in

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late 2015 which the AEC Blueprint 2025 is aimed toward integrate South-east Asia's diverse economies into a single market and production base which is stable that is highly cohesive, integrated and competitive, enhanced connectivity and people oriented, people centered community which increase integrated to the global economy (ASSOCIATION OF SOUTHEAST **ASIAN** NATIONS). Thus, In 2014 The **ASEAN** Qualifications Reference Frameworks (AQRFs) were developed and endosed by the ASEAN Economic Ministers, ASEAN Labour Ministers, and the ASEAN Education Ministers Meeting. The AQRF purposes support and enhance the AEC's member national qualification qualification framework or system by mechanism providing а facilitate comparison, transparency and better quality qualifications systems

The AQRF consists of 8 levels which each level has two components - learning outcomes and level descriptors (see Table1). Firstly, the AQRF is a hierarchy of levels of

complexity of learning; thus, AQRF employs learning outcomes as the metric for the hierarchy. Learning outcomes focus on the results of learning together with credit transfer and recognition of non-formal and informal learning. Secondly, the Level descriptors are purposed to provide reference point for the levels in NQFs. The level descriptors express the notion of competence which includes cognitive functional competence, competence, ethical personal competence and competence. In addition, the level descriptor includes two domains – knowledge and skills and application and responsibility. The knowledge and skills mean various kind of knowledge for instance fact and theories together with the cognitive skills. Whereas the application and responsibility are defined as the context, the knowledge and skills are employed in practice. Thus, the level descriptors expect that the learning outcomes are cumulative by level (ASEAN Ecomic Minister, 2014)

Table 1: The ASEAN Qualifications Reference Frameworks (AQRF)

Sourced from: ASEAN Qualifications Reference Framework (2014)

Knowledge and Skills	Application and Responsibility
Demonstration of knowledge and skills	Demonstrated the contexts of
that:	knowledge and skills:
Level 8	● are highly specialized and
• is at the most advanced and	complex involving the development
specialized level and at the frontier of	and testing o new theories and new
the field	solutions to resolve complex, abstract
• involve independent and original	issues
thinking and research, resulting in the	• requires authoritative and expert
creation of new knowledge or practice	judgment in management of research
	or an organization and significant
	responsibility for extending
	professional knowledge and practice
	and creation of new ideas and or
	processes
Level 7	• are complex and unpredictable
• Is at the forefront of a field and	and involve the development and
show mastery of a body of knowledge	testing of innovative solutions to
• involve critical and independent	resolve issues
thinking as the basis for research to	• require expert judgment and
extend of redefine knowledge or practice	significant responsibility for professional
	knowledge, practice and management

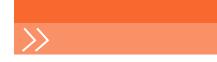


Table 1: (continuous)

Level 6	are complex and changing
• Is specialized technical and	• require initiative and adaptability as
theoretical within a specific field	well as strategies to improve activities
involve critical and analytical thinking	and to solve complex and abstract issues
Level 5	are often subject to change
• is detailed technical and theoretical	• involve independent evaluation of
knowledge of a general field	activities to resolve complex and
involve analytical thinking	sometimes abstract issues
Level 4	• are generally predictable but
• is technical and theoretical with	subject to change
general coverage of a field	• involve broad guidance requiring
involve adapting processes	some self-direction and coordination to
	resolve unfamiliar issues
Level 3	• are stable with some aspects
• includes general principles and some	subject to change
conceptual aspects	● involve general guidance and
• involve selecting and applying basic	require judgment and planning to resolve
• involve selecting and applying basic methods, tools, materials and information	require judgment and planning to resolve some issues independently
methods, tools, materials and information	some issues independently
methods, tools, materials and information Level 2	some issues independently • involve structured processes
methods, tools, materials and information Level 2 • is general and factual	some issues independently • involve structured processes • involve supervision and some
methods, tools, materials and information Level 2 • is general and factual	some issues independently • involve structured processes • involve supervision and some discretion for judgment on resolving
methods, tools, materials and information Level 2 • is general and factual • involve use of standard actions	some issues independently • involve structured processes • involve supervision and some discretion for judgment on resolving familiar issues
methods, tools, materials and information Level 2 • is general and factual • involve use of standard actions Level 1	some issues independently • involve structured processes • involve supervision and some discretion for judgment on resolving familiar issues • involve structured routine

In addition, AQRF has revealed ten areas that countries are probably expect benefits from NOFs as follows:

- Increasing consistence of qualifications
- Increasing currency of single qualifications
- Showing transparency for individuals and employees
- Recognizing a wide range of learning forms
- Increasing the portability of qualifications
- Referencing points of qualification standards of the national external
- Clarifying of learning pathways and progression
- Acting as a platform for stakeholders for strengthening cooperation and commitment
- Understanding and comparison of a stronger basis for international co-operation
- Greater connecting of national reform policies (ASEAN Ecomic Minister, 2014)

2.3 Thailand Profession

Qualification Framework (TPQF)

In an intensely competitive labour market, knowledge is not only essential but

also skills and several competencies are importance for professionals. Employees may or may not hold education degree but be able to develop competence on their work which is from the combination of training, skills from experience and knowledge that an employee is able to apply them effectively. Consequently, every job needs several competencies to perform a task competently (Health and Safety Executive).

In order to develop human resources in the country, Thailand Profession Qualification Frameworks was invented by Thailand Profession Qualification Institute: TPQI (Public Organization) which is aimed to enhance the productivity of human resources by developing profession qualifications as a mechanism. It is called professional standard. In doing so, TPQF has criterion of professional qualification according with the professional standards of performance. Each professional qualification framework's level illustrates the skills criterion of knowledge and responsibilities gained from the performances.

TPQF has established 7 levels of professional qualification framework as the instruments for assessing and certifying the performance of professional standards as seen in Table 2.

 Table 2: Thailand Professional Qualification Frameworks

Sourced from: Thailand Professional Qualification Institute (2018)

Level			Description
2000			Beschiption
Level 7	National	Top Management,	Possesses excellent skills in sustainably
	Qualification of	Novel & Original:	developing: corporate administration,
	Advanced	Career Expert	working system and innovation, and
	Professional		human resources: able to analyze and
	Competence		evaluate in order to resolve the
			company's crisis including determine
			course and future the company should
			take whether changing its corporate
			culture to be widely accepted
			domestically and internationally
Level 6	National	Experienced	Possesses management skills and
	Qualification of	Specialists and	capable and analyze and evaluate
	Higher	Senior	situation to systematically and
	Professional	Management:	effectively resolve complicated and
	Competence	Experienced	unpredicted issues including able to
		Specialist	apply his/her knowledge and various
			professional skills in assigned tasks
Level 5	National	Professionally	Possesses techniques and practical
	Qualification of	Qualified, and Mid-	skills to perform complicated
	Professional	Management:	operation; able to cooperate in the
	Competence	Expert	process of planning, managing and
			determine corporate policy using
			theory and needed technique to
			freely resolve conflict; able to
			develop new innovation and
			technology, also apply foreign
			language skills and technology in
			assigned tasks including capable of
			training and teach others

Table 2: (continuous)

Level			Description
Level 4	National	Supervisors,	Technical skills in practice Various
	Advanced	Foremen,	conceptual skills and practices
	Diploma	Superintendents	Conclude and make the decision to
	Qualification of	academically	solve the problems associated with
	Vocational	Qualified Workers,	using the theories and techniques
	Competence	Junior	independently on their own
		Management:	possesses technical skills which are
		Specialist	practical in real operation, also
			possesses various necessary
			conceptual and practical skills, must
			be able to perform, conclude and
			make decision to solve work-related
			problem by freely utilizing possessed
			theory and technique
Level 3	National	Skilled Personnel/	Possesses specialized and technical
	Diploma	Worker:	skills, also thinking process and
	Qualification of	Subject Expert	various other skill; must be able to
	Vocational		solve technical problem by referring
	Competence		to guideline and related information
			under advisory of the supervisor
Level 2	National	Semi-skilled	Possesses determined practical skills
	Qualification of	Personnel/Worker:	and able to resolve routinely basic
	Vocational	Skilled Labour	conflicts by applying theory, tools
	Competence 2		and basic information under
			supervisor's observation
Level 1	National	Basic skilled	Ability to perform routine tasks
	Qualification of	Personnel/Worker	Resolve the common basic problem
	Vocational	Basic Skilled	in their work regulated by closely
	Competence 1	Personnel	monitoring



Recently, 44 sectors and 481 occupations have completely been navigated to accreditation and certified under TPQI's methods, rules, and conditions to individual's accredit competence following occupational standard; for instance, logistics, thai chef, tour guide, property management, spa service, tourism, hotel & restaurant (hotel and tourism), insurance business, automobile service or aviation business.

2.4 Competency of aviation personnel

According to International Civi Aviation (ICAO), Organization aviation personel licensing on air travel not only include pilot but also flight attendants and ground personnel - aircraft mechanics, aircraft maintenance engineers, aircrafte maintenace planning engineer, ground equipment service, cargo service, catering, airline ticket agent or information technology in which their core competencies for instance, customer service oriented, flexible and adaptable, interpersonal skills, communication skills, teamwork, integrity and ethical, professional and pleasant image and safety awareness are essential for service efficiency and safe operations of the flight (International Civil Aviation Organization, 1984).

3. Summary and Conclusions

The literature review in this paper reveals that TPQF established to promote professional qualification system in the nation, and also is a major key mechanism to enhance the progress, competencies and productivity of worker whose knowledge, skills, and proficiencies are essentially needed for a professional worker in Thailand. However, TPQF did not focus on vocational qualifications like Europe, Australia or New Zealand.

Many countries invented and developed qualifications frameworks for several purposes; for instance, support lifelong learning, enhance the relationship between education, training and labor market, these create a platform of cooperation among stakeholder and provide a reference area for quality assurance. Whereas, the main TPQF mainly purposes are to accredit individual's competency by following occupational standard.

TPQF consists only 7 levels which each level has two components – learning outcomes and level descriptors; whereas ten ASEAN members employ AQRF that consists of 8 levels.

Additionally, TPQF's policies and practices reveal a lot of benefits not only aviation personnel but also 488 occupations that have already established. TPQF will seek better opportunities for Thai employees in labor's domestic market under occupational standard by accrediting, awarding and quality assuring qualifications. Thus, to benefit the international labor's market for Thai employees, TPQF needs to develop their frameworks to meet international occupational standa

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